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PHYSICS
Happenings # 39

1. Concordia Pure Sciences Bash was held on February 16, featuring our own undergraduate physics band, "Critical Mass". It was a night of good rock-n-roll and jazz music. The band consisted of 6 members, including 4 physics students:

J. F. Blais	Bass guitar
Philippe Bergeron	Lead vocals and rhythm guitar
Colleen Martin	Back-up vocals
Orest Harmatiuk	Drums
Chris Sarraf	Lead guitar
Alan Sitar	Keyboard

"CRITICAL MASS"'s next performance takes place at TYCOON. Stay tuned for further announcements of our up-and-coming physics band.

2. On March 6 a paper-recycling bin was set up in H-839 for the environmentally conscious physicists.
3. The week of March 6-9 was the SPS and the Physics Department PARTICLE PHYSICS WEEK. On the 6th, movies entitled "In Search of the Top Quark" and "Feynman: Portrait of a Physicist" were shown in H-762. On the 8th, we had our very own Dr. Kalman who gave a talk "Neutrons and Protons: The Atoms of the Strong Interaction".
4. On March 12, Dr. R. Hall of the Mathematics Department, under the auspices of the Physics Department, gave a seminar entitled "Spectral Geometry". Thank you, Richard.
5. The gala opening of our terminal room, H-839-1, took place on Wednesday, March 14. The furniture is in, and three terminals are presently installed. It is proving to be a most popular addition to our facilities.
6. The 1990-91 Annual SPS elections were held on March 15. The following are the elected SPS representatives: President - Ted Pinter; V. President - Micheline Isaac; V. President (Social) - Reuben Dos Reis; V. President (Communications) - Andrew Lukban; Treasurer - Josie Yipp; Secretary - Joel Aufgang. Congratulations to all.
7. On March 16, Lumen 2, the second issue this year of the official Physics student magazine, was published. (The Physics Department contributed \$50.00 towards this effort.)
8. The undergraduate students held a semi-formal end-of-year party at The Loyola Faculty Club on March 16, 1990. In attendance were Faculty and Staff of the Physics Department, which had contributed \$50.00 towards refreshments. Serge Melle spoke on behalf of the students acknowledging with a gift and a card the time, effort and contribution that Dr. Eddy makes to students and to the Department as UPD. A good time was had by all.
9. Dr. S. T. Ali of the Mathematics Department, under the auspices of the Physics Department, gave a seminar on March 19 entitled "Coherent States and Quantum Mechanics". Thank you, Twareque.
10. On March 19, 1990 Mr. Yaroslav Markiza was re-elected president of the Montreal Citizenship Federation. This is his second one-year term in office. Congratulations, Gerry.

Congratulations to members of the Department who have recently had papers published:

1. A. Campa, V. Rahal and C. Hamzaoui. New Parametrization of the Kobayashi-Maskawa Matrix, in "Beyond the Standard Model" (Ed.: K. Whisnant and B. Young). World Scientific. pp. 470-9 (1988).
2. C. Hamzaoui and Elementary Particle Group, Concordia University, Sir George Williams Campus. A Geometrical Parametrization of the Quark Mixing Matrix. World Scientific. 469-74 (1988).
3. S. K. Misra and Changlu Wang. EPR of VO^{2+} in $\text{Cd}(\text{COO})_2 \cdot 3\text{H}_2\text{O}$ single crystal: superhyperfine interaction with ligand protons, Physica B159, 321-9 (1989).
4. S. K. Misra and L. E. Misiak. Electron Paramagnetic resonance of the high-T_c superconductor $\text{Y}_{0.9} \text{Er}_{0.1} \text{Ba}_{1.9} \text{Sr}_{0.1} \text{Cu}_3\text{O}_{7-\delta}$, Solid St. Commun. 72, 117-23 (1989).
5. S. K. Misra and L. E. Misiak. EPR of polycrystalline $\text{YBa}_{1.9} \text{K}_{0.1} \text{Cu}_3\text{O}_{7-\delta}$. Solid St. Commun. 72, 1207-12 (1989).
6. S. K. Misra and S. Jerzak. Comparative Mn^{2+} EPR study of Phase transitions in $\text{Ca}_2 \text{M}(\text{C}_2\text{H}_5\text{COO})_6$; M=Ba, Sr, Pb, Acta Phys. Polonica A76, 943-8 (1989).
7. S. K. Misra and Changlu Wang. EPR of Cu^{2+} -doped cadmium ammonium sulphate: Pseudo Jahn-Teller effect. Phys. Rev. B41, 1-7 (1989).
8. F. Boudjema, C. Hamzaoui, M. A. Samuel and J. Woodside. Electric dipole moment of the W boson and the Radiation Amplitude Zero. Phys. Rev. Lett. 63, 1906-9 (1989).
9. C. Hamzaoui, A. I. Sanda and A. Soni. Effects of Fourth-Generation Quarks in B Meson System. Annals of the New York Academy of Sciences 578, 196-201 (1989).
10. S. K. Misra and U. Orhun. Effect of paramagnetic percolation on Gd^{3+} EPR linewidths in $\text{LiYb}_{x} \text{Y}_{1-x} \text{F}_4$ single crystals, Phys. Rev. B41, 2577-80 (1990).